

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 August 2003 (14.08.2003)

PCT

(10) International Publication Number
WO 2003/067846 A3

- (51) International Patent Classification⁷: **H04L 29/06**, 12/56
- (21) International Application Number: PCT/GB2003/000568
- (22) International Filing Date: 7 February 2003 (07.02.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0203057.5 8 February 2002 (08.02.2002) GB
- (71) Applicant (for all designated States except US): **MICHAELHOUSE MANAGEMENT LIMITED** [GB/GB]; Shakespeare House, 168 Lavender Hill, London Sw11 5TF (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **THWAITES, Jacoby, M.** [GB/GB]; Michaelhouse Management Limited, 21 Worship Street, London EC2A 2BH (GB). **PATEL, Bimal** [GB/GB]; Michaelhouse Management Limited, 21 Worship Street, London EC2A 2BH (GB).
- (74) Agents: **GYMER, Keith, Francis et al.**; Page Hargrave, Southgate, Whitefriars, Lewins Mead, Bristol BS1 2NT (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declarations under Rule 4.17:**
— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations: AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: INFORMATION ROUTING

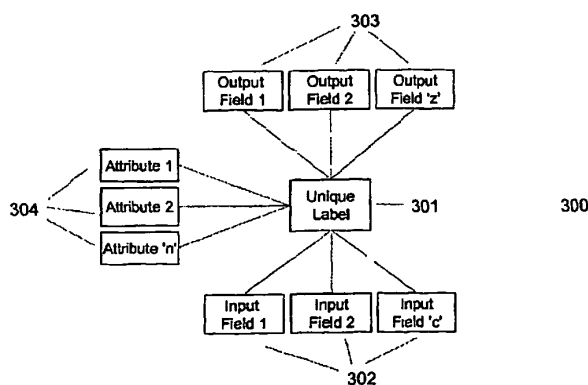


Diagram of Example Function

(57) Abstract: The invention provides an improved method and apparatus for information routing and sharing in multiple computer networks, which can facilitate automatic integration of diverse network and data systems. In an integrated data network comprising multiple computer systems, distinct information users and sources are treated as "Blocks" (1). An Information Routing Layer (3) coupled to the Blocks provides for the routing of information stored in the form of Datasets, which are sets of field names, types, values and other components, from one Block (1) to another by a process of "Information Routing", such that an Aggregate Route can be constructed as required to meet a request from a Block in the integrated data network without programmatic or specified workflow reference to other Blocks using one or more available Datasets and novel Functions to supply and process information as required.

WO 2003/067846 A3



GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

— of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

31 December 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

10/509962
 Internat Application No
 PCT/GB 03/00568

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04L29/06 H04L12/56

Rec'd PGT/PTO 23 SEP 2004

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 216 173 B1 (JONES ADRIAN ET AL) 10 April 2001 (2001-04-10) column 1, line 6 - line 61 column 6, line 20 - line 66 column 9, line 13 -column 10, line 56 column 11, line 34 -column 12, line 61 column 13, line 9 -column 14, line 34 column 29, line 54 -column 30, line 53	1-17
X,P	EP 1 179 928 A (MICHAEL HANLON) 13 February 2002 (2002-02-13) the whole document	1-17

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

17 October 2003

Date of mailing of the international search report

27/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

AVILES MARTINEZ, M

INTERNATIONAL SEARCH REPORT

Internal Application No
PCT/GB 03/00568

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6216173	B1	10-04-2001	NONE	
EP 1179928	A	13-02-2002	GB 2366160 A	27-02-2002
			EP 1179928 A2	13-02-2002
			US 2002023088 A1	21-02-2002